



6AR5

# POWER PENTODE

MINIATURE TYPE

6AR5

## GENERAL DATA

### Electrical:

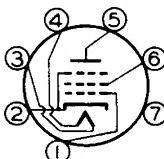
Heater, for Unipotential Cathode:

Voltage. . . . . 6.3 . . . . . ac or dc volts  
Current. . . . . 0.4 . . . . . amp

### Mechanical:

Mounting Position. . . . . Any  
Maximum Overall Length. . . . . 2-5/8"  
Maximum Seated Length. . . . . 2-3/8"  
Length, Base Seat to Bulb Top (excluding tip). . . . . 2"  $\pm$  3/32"  
Maximum Diameter. . . . . 3/4"  
Bulb . . . . . T-5-1/2  
Base . . . . . Small-Button Miniature 7-Pin  
Basing Designation for BOTTOM VIEW. . . . . 6CC

Pin 1 - Grid No.1  
Pin 2 - Cathode,  
Grid No.3  
Pin 3 - Heater  
Pin 4 - Heater



Pin 5 - Plate  
Pin 6 - Grid No.2  
Pin 7 - No  
Connection

## AF POWER AMPLIFIER - Class A<sub>1</sub>

### Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. . . . . 250 max. volts  
GRID-No.2 (SCREEN) VOLTAGE. . . . . 250 max. volts  
PLATE DISSIPATION. . . . . 8.5 max. watts  
GRID-No.2 DISSIPATION. . . . . 2.5 max. watts  
PEAK HEATER-CATHODE VOLTAGE:  
Heater negative with respect to cathode. . . . . 90 max. volts  
Heater positive with respect to cathode. . . . . 90 max. volts

### Typical Operation and Characteristics:

Plate Voltage. . . . .	250	250	volts
Grid-No.2 Voltage. . . . .	250	250	volts
Grid-No.1 (Control-Grid) Voltage. . . . .	-16.5	-18	volts
Peak AF Grid-No.1 Voltage. . . . .	16.5	18	volts
Zero-Signal Plate Current. . . . .	34	32	ma
Max.-Signal Plate Current. . . . .	35	33	ma
Zero-Signal Grid-No.2 Current. . . . .	5.7	5.5	ma
Max.-Signal Grid-No.2 Current. . . . .	10	10	ma
Plate Resistance (Approx.) . . . . .	65000	68000	ohms
Transconductance . . . . .	2400	2300	$\mu$ mhos
Load Resistance. . . . .	7000	7600	ohms
Total Harmonic Distortion. . . . .	7	11	%
Max.-Sig. Power Output . . . . .	3.2	3.4	watts

(continued on next page)

MAY 20, 1949

TUBE DEPARTMENT  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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**POWER PENTODE**

**Maximum Circuit Values (for maximum rated conditions):**

Grid-No.1-Circuit Resistance:

For fixed bias. . . . .	0.1 max.	megohm
For cathode bias. . . . .	0.5 max.	megohm

*Curves for the 6AR5 are the same as those  
shown for type 6K6-GT.*

MAY 20, 1949

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